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ON THE COVER

Scissor-Tailed Flycatcher

by Noppadol Paothong



HELP A TURTLE CROSS

THE ROAD. But only if it's safe to do so. Always carry turtles in the direction they were headed, or they will crawl back to the road.



TAKE MOM ON A CHICKEN HUNT. The

beautiful, edible chicken of the woods mushroom starts popping up around Mother's Day. Look for orange overlapping clusters on stumps, trunks, and logs of dead or dying trees. (Never eat a mushroom unless you're sure it's edible.)







Celebrate Saturday, June 2. Plant some New England asters, butterfly milkweed, or purple coneflowers in your yard.





LEARN ALL ABOUT FISHING at Kids Fishing Days. Each program provides equipment and instruction — all you have to bring is a grown-up! Find your nearest Kids Fishing Day at short.mdc.mo.gov/Zku.



Looking for more ways to have fun outside? Find out about Discover Nature programs in your area at mdc.mo.gov/events.

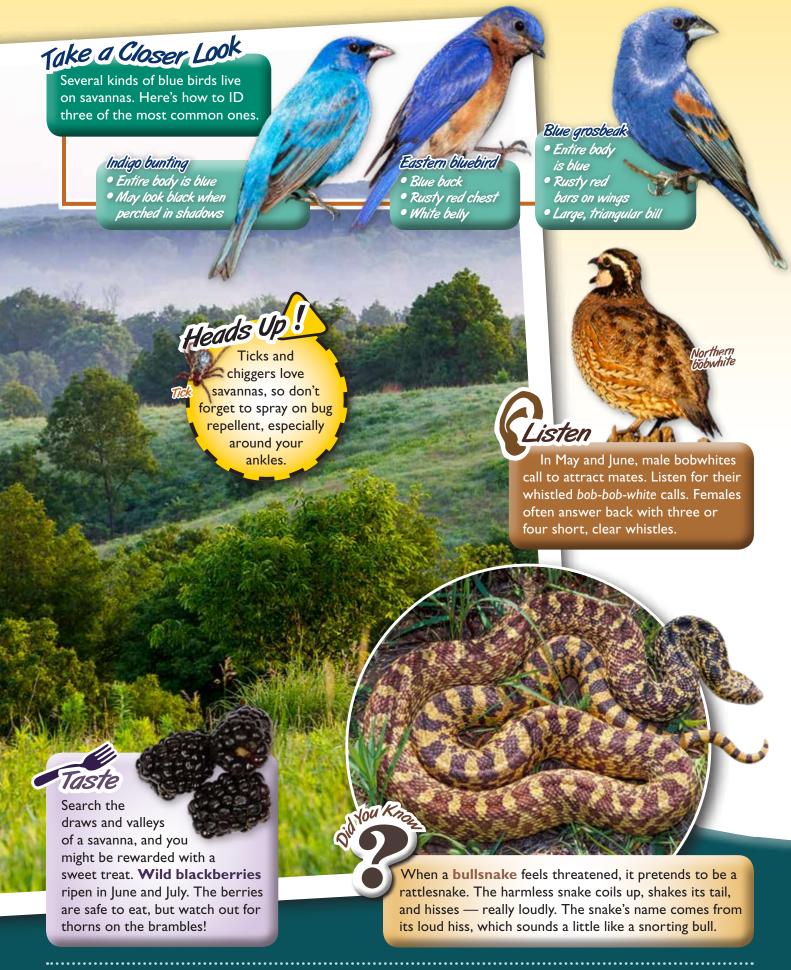
Donna Brunet

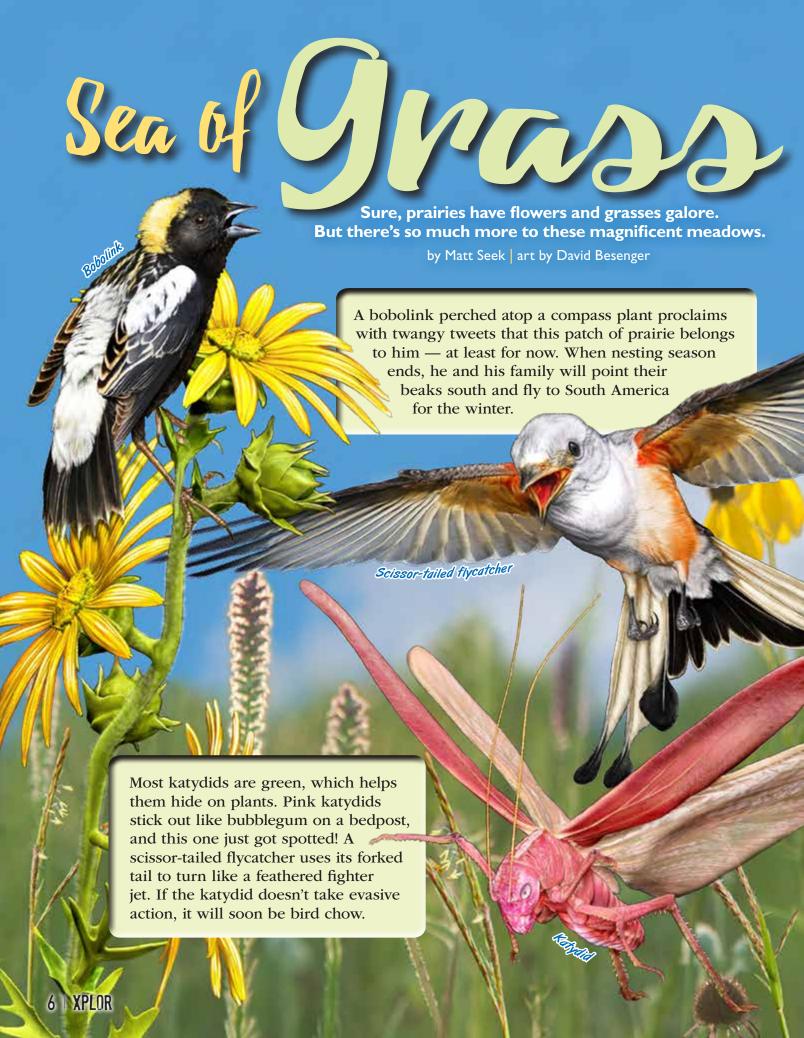
DON'T KNOW? Jump to Page 20 to find out.



- 1 Careful, my bristles can sting.
- 2 I grow up to have spots on my wings.
- 3 When young, I eat leaves on the trees.
- 4 But grown up, I live only to breed.

















June 2 is National Prairie Day. Celebrate by exploring one of Missouri's amazing grasslands. No matter which one you choose, you'll find it abloom with riots of purple, pink, and yellow wildflowers. Go in the early evening when it's cooler and you don't have to deal with morning dew. To find a prairie, visit mdc.mo.gov/atlas or moprairie.org.



Quest with Care

It can be hard to spot bird nests, and that's a good thing. In most cases, birds build their nests in out-of-the-way places to avoid predators (including us and our pets).

If you find a nest close to the ground, don't move branches out of the way to get a better view. Grab a pair of binoculars to see the bird's nest without disturbing the parents or attracting predators.

Eggs-act Timing for Every Bird

Each kind of bird spends a specific amount of time growing in its egg before it hatches and in its nest before it flies. Some birds, like ducks and geese, are ready to leave the nest as soon as they hatch. But songbirds, like robins, are blind and naked and need their parents' care.

If you find an active nest, keep track of it. What kind of bird is nesting? Does the male help the female with building, incubating (sitting on the eggs to keep them warm), feeding nestlings, and defending the nest — or is she on her own? How many babies do you see? Can you guess what day they will fly away?

All Shapes, Sizes, and Places

Birds build their nests with everything from grasses and twigs to mud, spider webs, and dog fur. Nests can be shaped like cups or pouches, and some are just bare scrapes on the ground. They can range in size from a pingpong ball to big stick piles several feet wide. Look for nests anywhere from below ground (kingfishers dig nest holes into creek banks) to treetops and skyscraper ledges.

Hardly a nest at all!

Killdeer make shallow scrapes in sand or gravel in open spaces around lakes, ponds, and rivers.



Don't be surprised to find them and their speckled eggs on a gravel road, railroad, or graveled roof.

Your nest is my nest

Brown-headed cowbirds lay lots of eggs, but they don't build nests. Instead, they drop an egg in the nest of another kind



Cowbird egg in a dickcissel nest

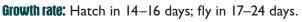
of bird. When the cowbird egg hatches, the nestling often pushes out the host birds' babies, and takes whatever food is brought to the nest - tricking the parents into raising it as their own young!



Barn Swallow

Where to look: In open areas near water, often above a barn door or under a bridge or culvert.

itest design: An open, shallow cup made of mud pellets mixed with grasses and thinly lined with feathers. Barn swallows often nest in colonies.



Who does the work: Both parents build the nest, incubate the eggs, and feed the young once they've fledged (left) the nest, often in midair.



Ruby-Throated Hummingbird

Where to look: In the woods, usually near water, often near the fork of a twig, 10-20 feet above ground.

Nest design: A tiny pingpong-ball-sized cup made of plant fragments, lined with down, bound together with spider webs, and covered on the outside with lichens.

Growth rate: Hatch in 16 days; fly in 19 days.

Who does the work: The female builds the nest, incubates the eggs, and feeds the young.



Pileated Woodpecker

Where to look: In woods with large, tall trees.

Nest design: A hole about 4 inches wide and 5 inches tall, around 15-70 feet up the trunk.

Growth rate: You will likely not see the white eggs, which lie in the tree cavity 10-14 inches deep. Hatch in 18 days; fly in 26-28 days.

Who does the work: Both parents hammer out the nest, both incubate the eggs, and both tend the young. Family groups may stay together through summer.



Baltimore

Where to look: In open woods and woodsy neighborhoods.

Nest design: A 6-inch-deep pouch made of long plant fibers, vine bark, hair, string, yarn, and lined with hair, wool, and fine grasses. It usually hangs from a twig fork at the end of a branch, about 25-30 feet above the ground.

Growth rate: Hatch in 12-14 days; fly in 12-14.

Who does the work: The female builds the nest and incubates the eggs. Both parents feed the young.



Where to look: In low, shrubby areas, also in any little nook around yards, barns, or outbuildings.

Nest design: A bulky, domed cup made of grasses, weeds, bark strips, moss, and rootlets. Lined with fine grasses, hair, and feathers.

Growth rate: Hatch in 12-14 days; fly in 12-14 days.

Who does the work: The male builds the nest, and the female lines it. The female incubates the eggs, and both parents feed the young.

Great Blue Heron

Where to look: Way up in the trees along a stream or lake.

isest design: A large, bulky platform of twigs. Herons nest in colonies called "rookeries" and add to their nests every year.

Growth rate: Hatch in 25–29 days; fly in 60 days; leave the nest in 64–90 days.

Who does the work: The male brings the nesting material, and the female builds the nest in 3–14 days. Both parents incubate the eggs, and both tend the young.



Peregrine Falcon

Where to look: On cliff ledges or tall buildings in cities.

Rest design: A shallow scrape.

Growth rate: Hatch in 28–29 days; fly at 35–42 days, but stay with their parents for another two months.

Who does the work: After the female lays her second egg, the male begins bringing her food. It's mainly the female that incubates the eggs, and she takes close care of them the first 14 days after they hatch. After that, dad begins tending the young if mom is absent.



Falcon cam The Missouri Department of Conservation is helping to restore peregrine falcons to our state. To watch the nest box camera, visit short.mdc.mo.gov/ZZJ.

Wild Turkey

Usually 8-12 per not

Where to look: In open woods and clearings.

itest design: A scrape several inches deep among grasses and lined with grass and leaves.

Growth rate: Hatch in 28 days. Downy nestlings can search for food soon after they hatch, but they will stay with their brood until winter.

Who does the work: The female builds the nest, incubates the eggs, and tends the young after they hatch. Males take no part in nesting, but sometimes several female turkeys will share the same nest.



THE STRUCCLE TO SURVIVE ISN'T ALWAYS A FAIR FIGHT

DUNGBELLE Illustrated by David Besenger Scuba Skills To breathe underwater, the spotted predaceous diving beetle holds an air bubble under its wing covers, where its breathing tubes are. Fang Force On contact, the beetle's sharp, hollow fangs inject digestive juices, helping disable prey. Oar Action Powerful, oar-shaped hind legs covered with swimming hairs help the beetle thrust toward larger prey. Sensitive Skin The shiner's skin-deep sense organs, called lateral lines, help it feel the slightest change in the water and dart away. School Safety By schooling together, small fish multiply their ability to detect and confuse predators. AND THEWINERIS...



owners, of course — into their nests. Biologists believe the skins scare away egg-eating animals such as squirrels. Or maybe flycatchers just like shiny, crinkly building materials.

Young **OPOSSUMS** leave their mom's pouch when they're 2 months old. But the pouch potatoes can't yet fend for themselves. So mom becomes a four-legged minivan — a mamavan. The youngsters ride on her back, learning to survive as

she gathers food.

SECURIT

No bones about it, **BELTED KINGFISHERS** have tough guts. Baby birds swallow fish whole and rely on strong stomach acids to digest bones and scales. When they grow up, their stomach chemistry changes, and they cough up pellets of undigested food.



are protective parents.

Males guard their nests
and chase away egg-eating
predators such as sunfish. To
make sure the eggs stay clean
and get plenty of oxygen, the
whiskery dads even swish
their tails over them.

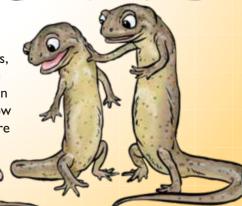
CARPENTER BEES are the drill

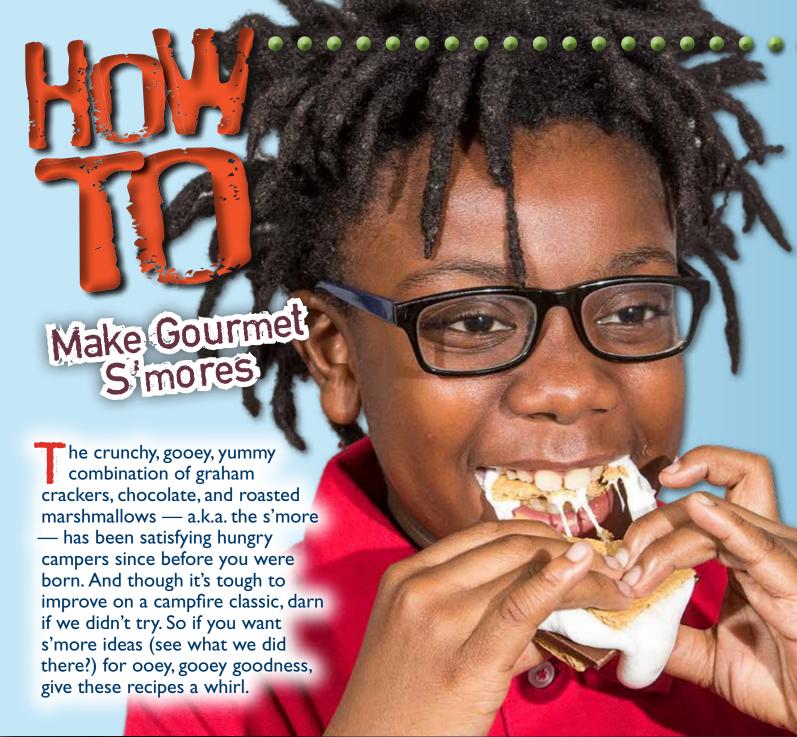
bits of the insect world. Mama bees use their burly jaws to chew tunnels up to 18 inches long into dead wood. The buzzy builders lay eggs inside the tunnels and seal up the exits with spit and sawdust.



could survive without the other. Baby yucca moths eat only seeds from the spiky plants. And yucca flowers — which make the seeds—can be pollinated only by the tiny white moths.

Need a new nose? No problem. New arm? Coming right up. That is, if you're a NEWT. The tiny salamanders have an amazing ability to regrow new body parts if they're damaged — even eyes, hearts, limbs, and tails.





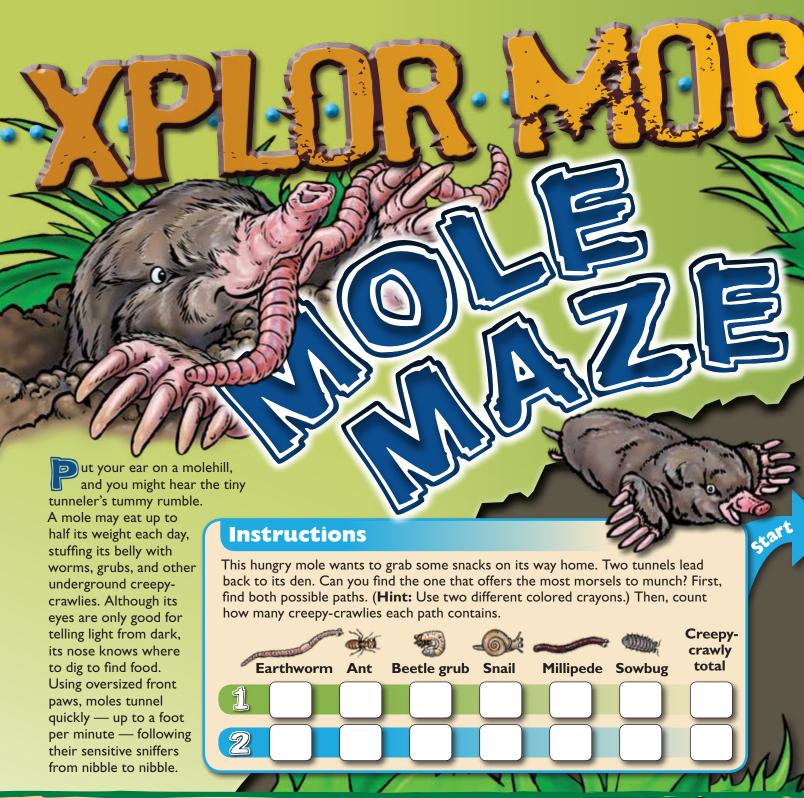
OSSIIng the Perfect Marshmallow
A flaming marshmallow

A flaming marshmallow looks awesome, but its burnt-black taste just doesn't compare to a marshmallow that has been roasted to golden-brown perfection.

- 1. Whittle a point on the end of an arm-length, green-wood stick.
- 2. Spear a marshmallow (or four) on the end.
- 3. Hold the marshmallow about 6 inches above a bed of hot coals. Turn the stick slowly so that each side of the marshmallow gets direct heat.
- 4. Check your marshmallow often. When it's golden brown and soft, it's ready.

Do NOT stick the marshmallow directly in the flames. If you do, the puffed sugar will quickly ignite, and you'll have a marshmallow torch that burns like lava if it drips on your skin. Yuck and ouch!





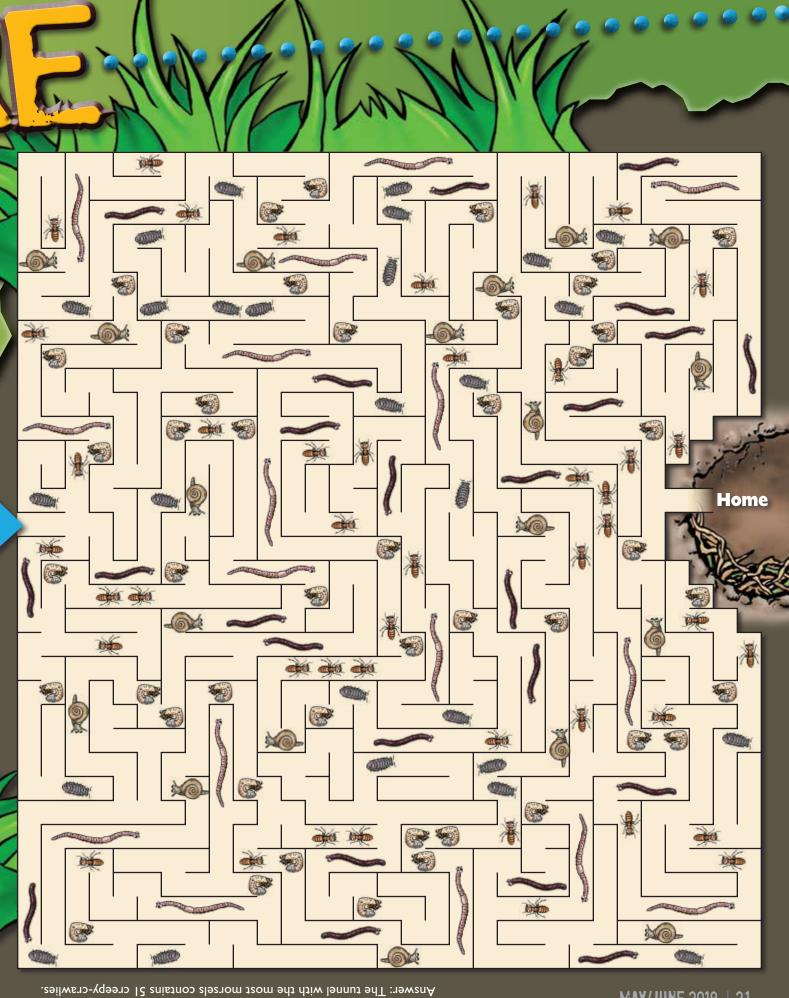
WHATIS?

FROM PAGE 3 —

Careful — those bristles can sting! After spinning its cocoon, this bristly green caterpillar will become a big, colorful io moth. When disturbed, the moth will spread its forewings to show bold eye

spots that can scare predators. Females are larger than males and have pinkishbrown wings instead of yellow ones. Io caterpillars are leaf eaters, but the moths live only to mate and don't eat at all. Both caterpillars and moths fall prey to birds and other critters. Learn more at mdc.mo.gov/field-guide.





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FREE TO MISSOURI HOUSEHOLDS



This streamlined, water-dwelling turtle has sharp claws on its webbed feet, so be careful if you pick one up. In Missouri, you might spot it on sandbars or mud flats with just the tip of its nose snorkeling above the water.

Females eat the larvae of water bugs, but males hang out in shallower water and eat land bugs. In May and

June, mama softshells go looking for sandy places to lay their eggs. Learn more at mdc.mo.gov/field-guide.